

PATENT CLAIMS

1. A distribution box connection module for telecommunications and data technology, comprising a housing in which externally accessible input and output contacts are arranged for the connection of cables and cores, with the housing having a cavity in which at least one printed circuit board is arranged, with the input and output contacts being arranged on the opposite end faces of the housing, and with the input contacts being associated with one input side and the output contacts being associated with one output side,

wherein

the input contacts (10, 20) are in the form of at least two mutually opposite rows of contacts, and the output contacts (30, 40) are in the form of at least one plug connector, with at least two input contacts (10) in the first row and at least two input contacts (20) in the second row being connected to the output contacts (30; 40) in the at least one plug connector, and with the input contacts (10, 20) in the first row and in the second row being connected via the at least one printing circuit board (50) to the output contacts (30; 40) in the plug connector.

2. The distribution box connection module as claimed in claim 1, wherein the input contacts (10, 20) are in the form of insulation displacement terminal contacts (11, 21).

3. The distribution box connection module as claimed in claim 1 or 2, wherein the plug connectors are in the form of RJ-45 female connectors (31, 41).

4. The distribution box connection module as claimed in one of the preceding claims, wherein the output contacts (30, 40) are in the form of two mutually opposite rows of plug connectors.

5. The distribution box connection module as claimed in one of the preceding claims, characterized in that two mutually opposite printed circuit boards (50) are arranged within the housing and are electrically connected to one another.

6. The distribution box connection module as claimed in claim 5, wherein the printed circuit boards (50) are connected to one another via a flat ribbon cable (17).

7. The distribution box connection module as claimed in one of the preceding claims, wherein function and/or protection elements are arranged on the printed circuit board (50), and are arranged electrically between the input and output contacts (10, 20, 30, 40).

8. The distribution box connection module as claimed in claim 7, wherein the protection elements are in the form of overvoltage protection elements or circuits.
9. The distribution box connection module as claimed in one of the preceding claims, wherein the housing is formed from two or more parts, with at least part of the housing being composed of metal.
10. The distribution box connection module as claimed in claim 9, wherein the metal housing is formed with grounding clips (36), which are connected to contact pads on the printed circuit board (50).
11. The distribution box connection module as claimed in claim 9 or 10, wherein the metal housing is formed with connecting elements (34) for profiled rods and/or rails.
12. The distribution box connection module as claimed in one of the preceding claims, wherein the input contacts (10, 20) have associated isolating contacts (13).